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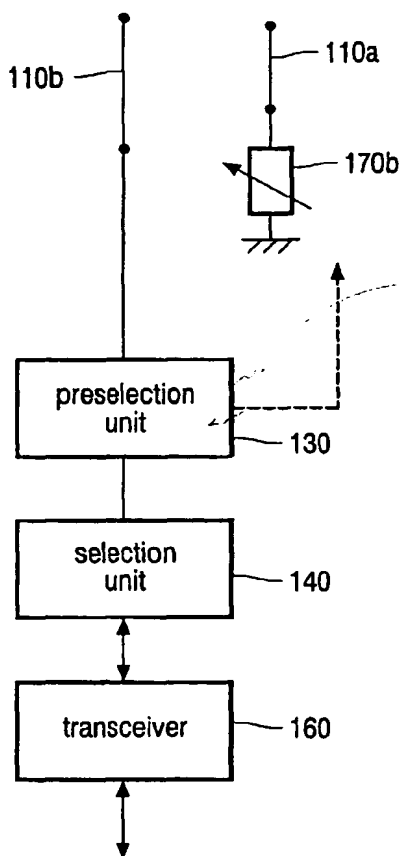
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(54) Title: ANTENNA DIVERSITY SYSTEM AND METHOD FOR OPERATING SAID SYSTEM



(57) **Abstract:** The invention relates to an antenna diversity comprising a first and a second antenna element where the first antenna element is operated in an active mode whereas the second antenna element is operated in a parasitic mode. The present invention minimizes the amount of mismatch while still being able to maximize a predetermined signal quality criterion for the electromagnetic signal on the active path between the first antenna element and the transceiver. By providing a pre-selection unit 130 as well as a selection unit 140 for selecting an optimal adjustable impedance connected to the second antenna ensuring that the amount of said mismatch is below a predetermined threshold value and that simultaneously a predetermined quality criterion for the transceived electromagnetic signal is fulfilled best within the range determined by the allowable mismatch. The invention further relates to a method for operating such an antenna diversity.